

The logos for the University of Alaska Fairbanks and the Museum of the North are displayed. The University of Alaska Fairbanks logo features a large blue 'UAF' with a white silhouette of a moose head integrated into the 'A', and the text 'UNIVERSITY OF ALASKA FAIRBANKS' below it. The Museum of the North logo is a dark blue square containing a white stylized bird or wing design, with the text 'MUSEUM OF THE NORTH' below it.

Introduction

Questions:

Materials + Methods

- ## Results + Discussion

Trees generated from RPS16 + trnL-F IGS showed little to no resolution.

Results (cont.)

Phylogenetic tree showing relationships between *C. scammanianus*, *C. poratzi*, *C. notakensis*, *C. sirmentosa*, and *C. scammanianus*. The tree is rooted with *C. scammanianus* at the top. The scale bar represents 0.0025. Bootstrap values are indicated at the nodes: 99 for the node between *C. notakensis* and *C. sirmentosa*, and 79 for the node between *C. poratzi* and the clade containing *C. notakensis* and *C. sirmentosa*.

```

graph TD
    Root --- Node1
    Node1 --- C_scammanianus1[C. scammanianus]
    Node1 --- Node2
    Node2 --- C_poratzi[C. poratzi]
    Node2 --- Node3
    Node3 --- C_notakensis[C. notakensis]
    Node3 --- Node4
    Node4 --- C_sirmentosa[C. sirmentosa]
    Node4 --- C_scammanianus2[C. scammanianus]
  
```

0.0025

[illegible]

Phylogenetic tree showing relationships between *M. bostocki*, *C. eschscholtzii*, *C. noatakensis*, *C. sarmentosa*, *C. porskittii*, and *C. scammaniana*. The tree is rooted with *M. bostocki* as the outgroup. The node supporting the clade containing *C. eschscholtzii*, *C. noatakensis*, *C. sarmentosa*, *C. porskittii*, and *C. scammaniana* has a bootstrap value of 100. The node supporting the clade containing *C. sarmentosa*, *C. porskittii*, and *C. scammaniana* has a bootstrap value of 87.

```

graph LR
    M_bostocki[M. bostocki] --- Node1
    Node1 --- Node2
    Node2 --- C_eschscholtzii[C. eschscholtzii]
    Node2 --- Node3
    Node3 --- C_noatakensis[C. noatakensis]
    Node3 --- Node4
    Node4 --- Node5
    Node5 --- C_sarmentosa[C. sarmentosa]
    Node5 --- Node6
    Node6 --- C_porskittii[C. porskittii]
    Node6 --- C_scammaniana[C. scammaniana]
  
```

0.0040

Acknowledgements

Thanks to Nick Kerhoulas, Jordan Metzgar + the UAM Herbarium (ALA) for your help and contributions.

Contact:

Stephany Jeffers, sjeffers2@alaska.edu